

Claims

1. A toggle bar link for conveyor pans of conveyors, guideway pans of mining machine tracks and similar, with toggle bar sockets arranged at the sides of the pans, open to the side, in whose cut-outs a toggle bar can be inserted whose heads are joined in one piece by a shaft which is smaller in cross section and whose heads have locking lugs to secure the toggle bars in the toggle bar socket cut-outs by means of detachable securing elements, in which the toggle bar and/or the securing elements each have a first and a second plane of symmetry in which they are symmetrically formed and/or the toggle bar sockets have a first plane of symmetry in which they are formed mirror symmetrically, and a second plane of symmetry to which the pans, jointed to each other are arranged.
2. A toggle bar for a toggle bar link according to Claim 1, in which the first toggle bar plane of symmetry runs through the centre of the shaft between the toggle bar heads and the second plane of symmetry runs along the shaft and centrally through the toggle bar heads and the locking lugs.
3. A toggle bar for a toggle bar link according to Claim 1, in which the shaft has a waist located centrally between the toggle bar heads.

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4. A toggle bar for a toggle bar link according to Claim 1, in which the toggle bar has toggle bar heads each parallel to the second plane of symmetry and the toggle bar tapers outwards and downwards continuously from the first plane of symmetry or the toggle bar head.
5. A toggle bar for a toggle bar link according to Claim 1, in which the toggle bar heads taper conically to the shaft by means of inclined shoulder surfaces.
6. A toggle bar for a toggle bar link according to Claim 1, in which the locking lugs and toggle bar heads on both shaft ends are formed identically to each other.
7. A toggle bar socket for a toggle bar link according to one of the Claim 1, in which the first plane of symmetry runs longitudinally through the socket cut-out and the socket cut-out has a channel section open to the front and extending for the acceptance of the shaft, a head cut-out to accept a toggle bar head and, at the ends, an open locking section restricted by wall projections.
8. A toggle bar socket for a toggle bar link according to Claim 1, in which the toggle bar socket has side parts which are provided with preferably notched or pressed acceptance slots for the acceptance of the securing elements.

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9. A toggle bar socket according to Claim 7, in which the wall projections in each case have an open cut-out, preferably semi-circular in cross section.
10. A toggle bar socket for a toggle bar link according to Claim 1, in which the toggle bar sockets comprise cast parts.
11. A toggle bar socket according to Claim 7, in which a socket base is formed preferably only in the region of the channel section, which has on its rear side a fastening rib for positive engagement in the intervening space between conveyor side profiles and/or the central plate of the conveyor.
12. A securing element for a toggle bar link according to Claim 1 having toggle bar sockets according to Claim 9, comprising an elongate plate which has two holes symmetrically arranged to the central plane of the plate for the acceptance of detachable, deformable securing bolts which can index in the cut-outs of the socket cut-outs.
13. A securing element according to Claim 12, in which the holes are provided with counterbores on both sides.
14. A securing element according to Claim 12, in which between the holes at least two borings are provided for the engagement of indexing noses of an assembly/disassembly tool.

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15. Conveyor or guideway pans having toggle bar links according to Claim 1, in which all the toggle bar sockets provided at the abutment joints of the pans are identical to each other.
16. An assembly tool for a toggle bar link according to Claims 1, comprising a handle and a tool plate, whereby the tool plate has indexing noses on the side of the tool plate away from the handle.

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